

MicroPoP/MagPi/Misty Technology Summary for Southeast Florida Utility Council (SEFLUC)

How Eagleridge's MicroPoP technology Helps Utilities Zero Waste is shown in a series of flasks. These flasks go from jet black to clear water within 7 days, an amazing breakthrough in waste processing.

Waste activated sludge (WAS) is a common waste at waste water treatment plants (WWTPs). Microbial digestion processes take time as the microbes don't have teeth; they use slower acting enzymes to break the cell walls to release the nutrients. MicroPoP breaks the cell walls with a modified commercially available machine. This converts the WAS into instantly bio-available food for the microbes back in the process. Both aerobic and anaerobic microbes have an untapped capacity to eat this new food very quickly. Therefore, MicroPoP harnesses the natural capability to eliminate the WAS. MicroPoP also enables simple resource recovery of MicroPoP liberated Phosphorus (MagPi) and Nitrogen (Misty) as useable fertilizers.

Eliminating WAS with MicroPoP/MagPi/Misty has many benefits:

- Suite of Technologies solving waste water treatment problems, save money and lower GHGs
- Complete elimination of WAS using MicroPoP at the facility (leaving clear water),
- Resource recovery of P (using MagPi) and N (using Misty) as useable fertilizer,
- Proven technologies ready for full scale commercialization (Technology Readiness Level 7 to 8
- 2X the biogas very quickly,
- 3X the throughput capacity of the existing facility that can defer for years many \$Millions in capital projects for facility expansion, and
- MicroPoP is approx. 10X times less installed cost than our closest competitor (Cambi).
- Saving smaller plants \$100,000s/ yr operating costs, and larger plants several \$ Million per year.
- MicroPoP is de-risked with 3 full scale demos and pilot studies, with MicroPoP machinery operated 4 yrs. We have a selection of full-scale equipment in the warehouse and a pilot plant.
- Most carbon emission reduction technologies cost a lot of money to implement, rather than saving money for the facility like MicroPoP does.

Industry traction to date:

- MicroPoP has been chosen for use at full scale by PepsiCo. Pandemic delay.
- 2 facilities in Alabama have signed a Letter of Interest to act as fullscale demonstration sites.
- Short listed by a Florida utility. Decision delayed by pandemic.
- And many more at earlier stages of discussions including sanitation utility in Lima, Peru, Chicago MWRD, and Wisconsin.

We are currently planning to conduct a pilot plant project in Vancouver over the next 6 months. If you are interested in hearing more about this project and/or interested in joining the team as an observer or "interested party", please contact us for further information.

Erik Rehtlane B.A.Sc.

CEO and President

Eagleridge Innovations Corporation

www.eagleridgeinnovation.com

Cell (604) 817-4351 Home office – (604) 281-2495

erikr@eagleridgeinnovation.com